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Agilent Technologies

Innovating the HP Way



mm-Wave Waveguide Isolators

50.0 - 110.0 GHz

HP Models
V 365A
W 365A

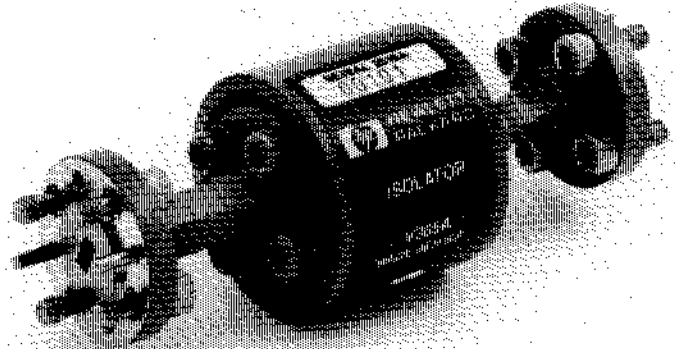
TECHNICAL DATA • JULY 1986

NEW PERFORMANCE STANDARDS FOR mm WAVE MEASUREMENTS

Isolators are important measurement accessories for isolating reflections and reducing mismatch.

HP's V and W365A Isolators are ideal measurement isolators. In a measurement, their high, broadband isolation (better than 25 dB) minimizes the reflection effects of a source. Their low SWR and low insertion loss help to improve mismatch inaccuracy without the attenuation of matching pads.

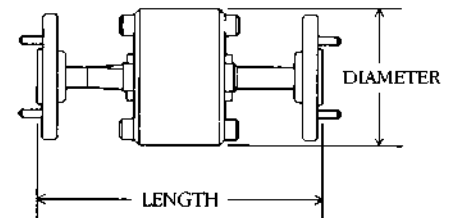
The HP V and W365A use a Faraday-rotation design. It consists of a section of waveguide containing low-loss ferrite material and impedance matching elements. A permanent magnet supplies the external magnetic bias field to the ferrite core.



SPECIFICATIONS

HP Model #	V365A	W365A	
Frequency Range (GHz)	50.0 - 75.0	75.0 - 110.0	
Insertion Loss (dB, max.)	2.0	2.5	
Isolation (dB, min.)	25	25	
SWR (max.)	1.5	1.5	
Maximum Input Power (W, avg.)	1.0	1.0	
Fits Waveguide Size:			
EIA	WR-15	WR-10	
MIL-W-85/x-xxx	3-017	3-023	
Equivalent Flange:			
MIL-F-3922/xxx-xxx	67B-008	67B-010	
UG-xxx/U	UG-385/U	UG-387/U (mod.)	
Dimensions:			
Length:	cm. (in.)	6.2 (2.6)	6.1 (2.5)
Diameter:	cm. (in.)	2.5 (1.0)	2.5 (1.0)
Net Weight:	gm. (lb.)	68 (.15)	68 (.15)

Isolator



For more information, call your local HP sales office listed in the telephone directory white pages. Ask for the Electronic Instruments Department. Or write to Hewlett-Packard: **U.S.A.** — P.O. Box 10301, Palo Alto, CA 94303-0890. **Europe** — P.O. Box 999, 1180 AZ Amstelveen, the Netherlands. **Canada** — 6877 Goreway Drive, Mississauga, L4V 1M8, Ontario. **Japan** — Yokogawa-Hewlett-Packard Ltd., 3-29-21, Takaido-Higashi, Suginami-ku, Tokyo 168. Elsewhere in the world, write to Hewlett-Packard Intercontinental, 3495 Deer Creek Road, Palo Alto, CA 94303-0890.

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